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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,621	07/24/2003	William Patrick Tunney	11884/404301	8079

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EXAMINER

PATEL, SHEFALI D

ART UNIT PAPER NUMBER

2621

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/625,621	Applicant(s) TUNNEY, WILLIAM PATRICK	
	Examiner Shefali D. Patel	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. The amendment was received on May 3, 2005.
2. Claims 17-21 are newly added.
3. Claims 1-5 and 7-21 are pending in this application.

Response to Arguments

4. Applicant's arguments filed on May 3, 2005 (Remarks on pages 6-8) have been fully considered but they are not persuasive.

Applicant argues on page 6 stating that "Neither Gannaway nor Lousig-Nont disclose the claimed detection and conversion", specifically detecting a filled-in geometric shapes from capture data as recited in claim 1, for example.

The examiner disagrees.

Gannaway discloses detecting geometric shapes (col. 5 lines 38-42) and comparing the shapes as disclosed at (col. 5 lines 6-13 and lines 47-52). Gannaway also discloses a processor in Figure 3 as disclosed in claim 14. Gannaway discloses detecting geometric shapes as the shapes are in the form of triangle, equilateral triangle, etc. as seen at col. 5.

5. Applicant's arguments with regard to Yoshino's reference are not persuasive for the same reasons as above.
6. Rejections for 101 Double Patenting still stands as in Previous Office Action.

Double Patenting

7. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

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A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

8. Claims 1-16 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1-3, 6-11, and 13-19, respectively, of copending Application No. 10/625,596. This is a provisional double patenting rejection since the conflicting claims have not in fact been patented.

9. The newly added claims 17-21 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 20, 24, 25, 27, and 28, respectively, of copending Application No. 10/625,596.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 1, 4, 14, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gannaway et al. (hereinafter, "Gannaway") (US 4,773,860) in view of Lousig-Nont (US 4,358,279).

With regard to claim 1 Gannaway discloses a method comprising detecting a filled-in geometric shape formed by at least one writing on the paper from the capture data (col. 5 lines 38-42, geometric shapes are triangle, equilateral triangle, etc.); comparing the detected shapes with one of a plurality of shapes stored in memory in associated with a the paper (col. 5 lines 47-52); on a match, retrieving from memory content printed on the paper that is associated with the matched stored shapes (col. 6 lines 62-68); and storing the content to memory according to its designated copy as writing made on that designated copy (storing in the memory means disclosed at col. 5 lines 51-52). Gannaway discloses receiving data from an opaque, semi-flexible sheet made from an extrudable molded plastic as disclosed at col. 5 lines 34-36. However, Gannaway does not expressly disclose receiving capture data from a

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capture device, the capture data is captured simultaneously with writings made on a paper (Gannaway: the electric contacts detect the answers (writings) as it is being written at col. 6 lines 46-68). Lousig-Nont discloses this at col. 2 lines 16-29. Gannaway and Lousig-Nont are combinable because they are from the same field of endeavor, i.e., testing devices. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Lousig-Nont with Gannaway. The motivation for having multiple questionnaire forms (Lousig-Nont) rather than a single overlay form (Gannaway) is to provide, a tally sheet having a procedure for grading the symbols marked on the score sheet by assigning a predetermined numerical value as suggested by Lousig-Nont at col. 1 lines 51-60. Therefore, it would have been obvious to combine Lousig-Nont with Gannaway to obtain the invention as specified in claim 1.

With regard to **claim 4** Gannaway discloses the retrieved data that includes answers to a question in a questionnaire (col. 5 lines 38-42).

Claim 14 recites identical features as claim 1 except claim 14 is a system claim. Thus, arguments similar to that presented above for claim 1 is equally applicable to claim 14. Please note the system in Gannaway in Figure 1A and 3 with a memory and a processor.

Claim 17 recites identical features as claim 1 except claim 17 is a broader version of claim 1. Thus, arguments similar to that presented above for claim 1 is equally applicable to claim 17.

With regard to **claim 19** Gannaway (as modified by Lousig-Nont) discloses all of the claimed subject matter as already discussed above in claim 1 and the arguments are not repeated herein, but are incorporated by reference. Claim 19 distinguishes from claim 1 only in that it recites a capture device comprising: an input device (Lousig-Nont discloses this at col. 2 lines 16-29), a form holder (Gannaway: Unit 20, Figure 1); and a processor (Gannaway: 304 in Figure 3; col. 10 line 66 to col. 11 lines 1-6).

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12. Claims 2-3, 5, 7-9, 11-13, 15-16, 18 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gannaway in view of Lousig-Nont as applied to claims 1, 4, and 14 above, and further in view of Yoshino (US 6,618,504).

With regard to **claim 5**, Gannaway (as modified by Lousig-Nont) discloses all of the claimed subject matter as already discussed above in claim 1 and the arguments are not repeated herein, but are incorporated by reference. Claim 7 distinguishes from claim 1 only in that it recites receiving coordinates from a capture device, the set of coordinates representing shapes. However, Yoshino discloses this at col. 17 lines 13-18, col. 21 lines 37-61 and col. 22 lines 3-20. Yoshino also discloses detecting the shapes from the set of coordinates (identifying handwriting from the coordinates col. 17 lines 13-18, col. 21 lines 37-61 and col. 22 lines 3-20; converting is disclosed at col. 25 lines 35-56). Gannaway, Lousig-Nont and Yoshino are combinable because they are from the same field of endeavor, i.e., testing devices. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Yoshino with Lousig-Nont and Gannaway. The motivation for doing is to indicate the relative positions of the handwriting to determine the shape of the writing as suggested by Yoshino at col. 6 lines 53-67. Therefore, it would have been obvious to combine Yoshino with Lousig-Nont and Gannaway to obtain the invention as specified in claim 7.

With regard to **claim 2** Yoshino discloses a set of time ordered coordinates (x,y) of the writings on the paper (col. 17 lines 13-14, 27-28).

With regard to **claim 3** Yoshino discloses a set of vector coordinates (x,y,t) of the writings on the paper (col. 25 lines 28-34).

With regard to **claim 7** Yoshino discloses coordinates indicating when (x,y,t) and where (x,y) the geometric shape was made (col. 25 lines 28-34; col. 25 lines 28-34).

With regard to **claim 8** Gannaway as modified by Lousig-Nont discloses the paper form is attached to the capture device, the paper form including the multiple pages and a plurality of figures, each

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figure having a unique shape and corresponding to a questionnaire answer as already discussed above in claim 1 and the arguments are not repeated herein, but are incorporated by reference. Please note that multiple pages with multiple boxes of the questionnaire is disclosed in Lousig-Nont as seen in Figures 1-3.

With regard to **claim 9** Gannaway discloses filing in the figures as seen in Figure 1 with a probe 60.

With regard to **claim 11** Gannaway discloses each of the shapes made by tracing the perimeter of one of the figures (perimeter of the boxes is being traces to determine whether it's a triangle shape or not at col. 5 lines 38-47).

With regard to **claim 12** Gannaway as modified by Lousig-Nont discloses retrieving from memory predefined shapes expected to be on the capture device; comparing the detected shapes to the predefined shapes; determining which of the predefined shapes match the detected shapes; and storing the answers corresponding to the determined predefined shapes on the determined pages as already discussed above in claim 1 and the arguments are not repeated herein, but are incorporated by reference. Please note that designating in claim 1 is same as determining on which page in claim 15.

With regard to **claim 13** Lousig-Nont discloses receiving an identification of the paper form by identifying the pages 102 and 104, col. 2 lines 16-26.

Claim 15 recites identical features as claim 7. Thus, arguments similar to that presented above for claim 7 is equally applicable to claim 15.

With regard to **claim 16** Gannaway discloses set of marks indicating a plurality of shapes, col. 5 lines 30-47.

Claim 18 recites identical features as claim 5 (converting is disclosed at col. 25 lines 35-56). Thus, arguments similar to that presented above for claim 5 is equally applicable to claim 18.

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With regard to **claim 20** Yoshino discloses differentiating between intended used contact and mistaken user contact at col. 27 lines 7-17.

With regard to **claim 21** Yoshino discloses cross marking on the geometric shapes (i.e., characters in this case) of mistaken user contact at col. 27 lines 17-26.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6,091,852 – Method of Pattern Recognition and Method of Creating an N-Dimensional Object

14. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shefali D. Patel whose telephone number is 571-272-7396. The examiner can normally be reached on M-F 8:00am - 5:00pm (First Friday Off).

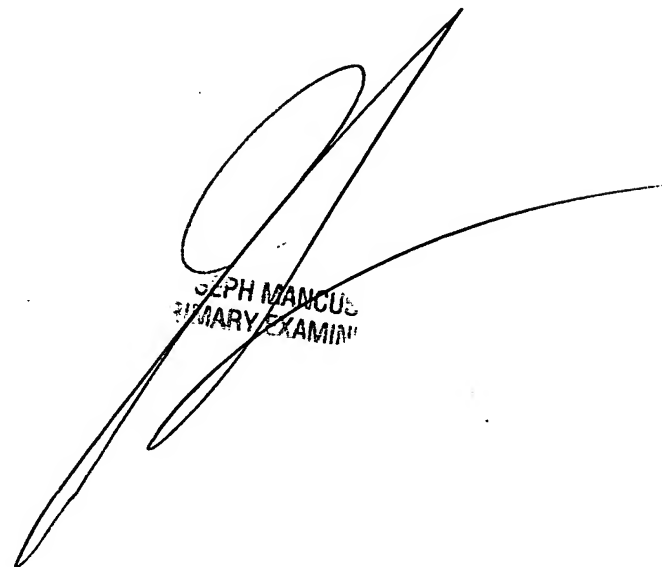
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on (571) 272-7695. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shefali D Patel
Examiner
Art Unit 2621

July 13, 2005



SEPH MANCUS
PRIMARY EXAMINER